

01.05. DEM Derived Watershed Boundary

1.0 File Format, Name and Directory

ESRI ArcView polygon shapefile theme composed of several files.

2.0 Theme Metadata

None

3.0 Description

The DEM generated watershed boundary polygon shapefile delineates the outline of the topographic surface drainage of project area. This watershed boundary was determined by semi-automated analysis of the 10 USGS meter DEM. Terrain analysis algorithms employed the eight-direction pour point model with a threshold size of 4000 ha. DEM watershed delineations are not unique, but are reproducible for a given algorithm and initial parameters. Watershed boundary extractions can be sensitive to elevation errors in the source DEM and algorithmic rules for handling local topographic depressions. DEM watershed boundaries are less reliable in areas of low relief.

Watershed boundary polygons are useful in many analyses of watershed characteristics and hydrologic modeling. They are may be used as templates to subset geospatial data to match topographic drainage areas.

4.0 Projection

Universal Transverse Mercator Zone 11 North, North American Datum of 1927.

